

**Notice of Allowability**

Application No.

10/828,412

Applicant(s)

CHANG, CHONG-MIN

Examiner

Julie-Huyen L. Ngo

Art Unit

2871

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/6/2005.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 4/20/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## **DETAILED ACTION**

### ***Allowable Subject Matter***

Claims 1-11 are allowed.

### ***Reasons for Allowance***

Claim 1 is allowed since there is no prior art of record that teaches a light source module comprising a reflective device arranged between the light source and the light-selection device, having a transparent portion, wherein the incident beam pass through the transparent portion of the reflective device so as to reach the light-selection device, and the reflective beam is reflected by the reflective device and back to the light-selection device.

Claim 6 is allowed since there is no prior art of record that teaches a light source module comprising a reflective mirror, arranged between the light source and the reflective polarizer, the reflective mirror having a reflective concave surface and a transparent portion, wherein the incident beam pass through the transparent portion of the reflective mirror so as to reach the reflective polarizer, and the reflective concave surface is used for reflecting the reflective beam back to the reflective polarizer.

Claim 10 is allowed since there is no prior art of record that teaches a light source module comprising a reflective mirror arranged between the light source and the color wheel, and having a reflective concave surface and a transparent portion,

wherein the incident beam passes through the transparent portion of the reflective mirror so as to reach the color wheel, and the reflective concave surface is used for reflecting the reflective beam back to the color wheel.

Claims 2-5, 7-9 and 11 are allowed because of their dependency on the allowed claims 1, 6 and 10, respectively.

### ***Conclusion***

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Jiang et al. (US 6573961 B2) disclose a high-brightness color liquid crystal display panel employing light recycling with CLC mirror stack.

Nishida et al. (US 6805450) disclose an illuminating optical system 100E including a light source 110, a first condenser lens 120, a color wheel 130, a light-transmitting rod 180A, and a second condenser lens 190.

Yamauchi et al. (US 6866404 B2) disclose (Fig. 4) a light generated from a light source 105 placed at a first focal point F1 of an ellipsoidal mirror 104 or a parabolic mirror is led to an integrator optical system 100 through a collimator lens 107 arranged behind a second focal point F2. Luminous flux not reflected by the surface of the ellipsoidal mirror 104 returns to the light source 105 using a concave mirror-112 having a spherical center at the first focal point F1. Thus most of the luminous flux generated from the light source 105 can be utilized.

***Contact Information***

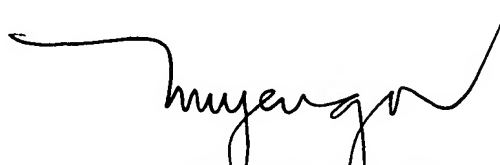
Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (571) 272-2295. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (571) 272-2293.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 28, 2005



***Julie-Huyen L. Ngo***  
***Primary Patent Examiner***  
Art Unit 2871